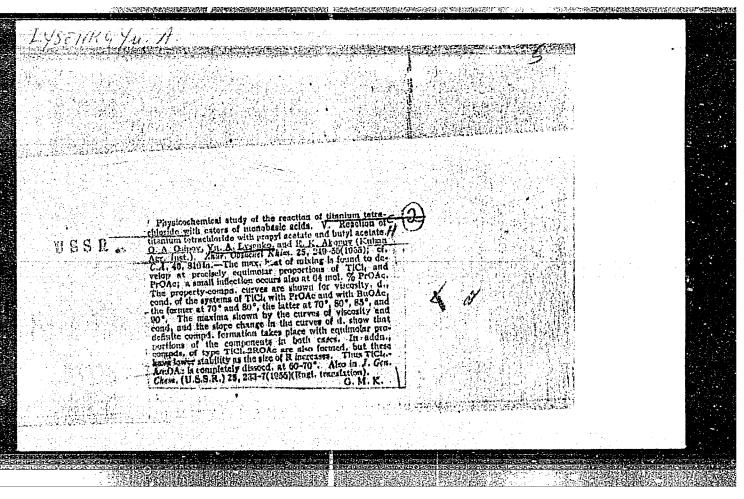
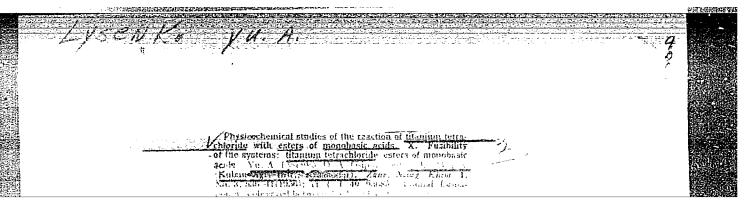
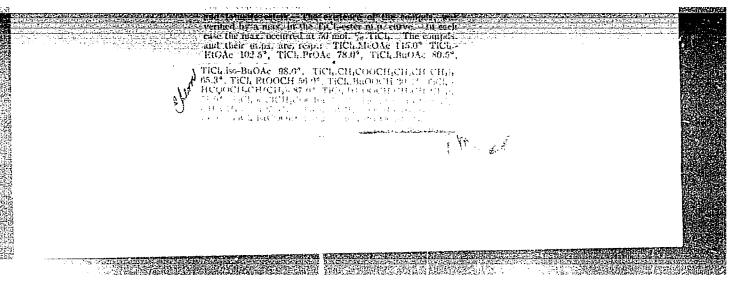
LYSENKO, USSR/Chemistr	U., A., I.					
Card 1/1	er de 1908 i la presidenta de la laction de la compressión de la compressión de la compressión de la compressión A principal de la compressión de la co Aspeta e las especies de la compressión					
Authors	Lysenko, Yu. A., Osipov, O. A., and Feodosy'ev, N. N.					
Title	Blending Temperatures for Systems Formed by a Titanium Tetrachloride with Ethylacetate and n-Butylacetate.					
Periodical	Zhur. Fiz. Khim. Vol. 28, Ed. 4, 700-702, Apr 1954					
Abstract	Formulas and calculation of the blending temperatures for TiCl, - CH ₃ COOC ₂ H ₅ and TiCl, - CH ₃ COOC ₄ H ₆ systems. According to the author of this article the heat effect in the TiCl, - CH ₃ COOC ₂ H ₅ system is significantly higher than in the SnCl, - CH ₃ COOC ₂ H ₅ system (8.93 kcal/ mole as compared to 5.67 kcal/mole). Six references; graphs.					
Institution	: Rostov State University.					
Submitted	i June 26, 1953					

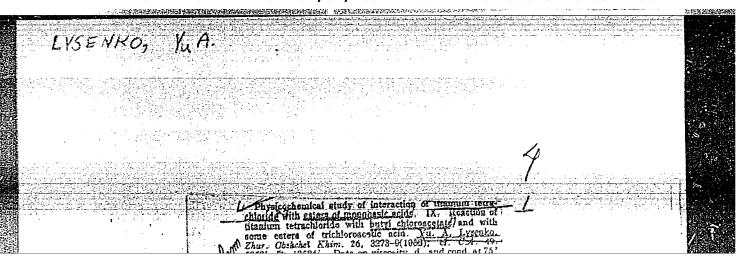


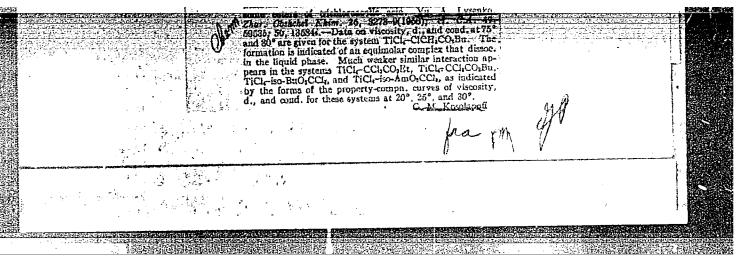




LYSENKO, Yu.	A
	L'Arreleochemical study of the reaction of fitantium letter. Chlorido with outers of monobesic acids? Vill Reaction of distribut township of the learner of distribut township of the learner. John John Charles Kins. 20.
	d., and cond. at \$5. 10. 4. 50. 10. 50. 50. 50. 50. 50. 50. 50. 50. 50. 5
	TICL ISO-AMOLCII, and TiCL 2HCO.CH.CH.CH.Mes. The 11:2 completes are somewhat more stubie than the corresponding ones with exters of AvOH. In Internate shown G. M. Kojolandii.
	1/1 pa

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"





AUTHORS:

Osipov, O.A., Lyzenko, Yu.A.

307/78-3-7-23/44

TITLE:

XI. The Electrolysis of Tetrachlorotitanium Compounds With Some Esters of Monobasic Acids (XI. Elektroliz soyedineniy

chetyrakhkhloristogo titana s nakotorymi efirami odnocsnovnykh

kislot)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol. 3, Nr 7, pp. 1605-1607

(USSR)

ABSTRACT:

In the course of the present paper the results obtained by the electrolysis of the solutions of titanium-(IV)-chloride in n-butyl-formiate, iscamylacetate, ethyl acetate, and ethyl formiate are investigated. Graphite, and, in some cases, platinum and silver were used as material for electrodes. In the course of electrolysis there is a black precipitation at the cathode in the case of all experiments, in which the ratio between titanium and chlorine is 1:3. At the anode a product is separated in the case of which the ratio between titanium and chlorine is 1:4. On the strength of these investigations it is assumed that at the cathode TiCl₂ is first separated which is reduced with TiCl₄ to TiCl₂.

Card 1/2

The formation of TiCl2 is characterized by the fact that at first

XI. The Electrolysis of Tetrachlorotitanium Compounds With Some Esters of Monobasic Acids

307/78-3-7-23/44

a yellowish-brown precipitation is formed on the cathode. The results obtained confirm the scheme of the electrolytic dissociation of titanium-(IV)-chloride in complex esters as described in earlier works. There are 1 table and 9 references, 8 of which are Sordet.

SUBMITTED:

Juna 17, 1957

1. Titanium compounds—Electrolysis 2. Titanium compounds—Separation 3. Titanium compounds—Precipitation

4. Titanium compounds -- Test results

Card 2/2

AUTHORS:

Lysenko, Yu. A., Osipov, O. A.

SOV/79-28-7-2/64

TITLE:

The Investigation of the Conversion of Titanium Chloride With the Esters of Monobasic Acids (Issledovaniye vzaimodeystviya chetyrekhkhloristogo titana so slozhnymi efirami odnoosnovnykh kislot) XII. On the Decomposition of TiCl . E Compounds (XII. O

razlozhenii soyedineniy TiCl, E)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7,

pp. 1724 - 1727 (USSR)

ABSTRACT:

. Earlier (Refs. 1-6) the author found that the titanium chloride dissolved in the esters of monobasic acids forms compounds of the composition TiCl4.E and TiCl4.2E(where E denotes the ester molecule), with the products TiClA.E in the liquid phase being stable within a wide temperature interval. Although the data obtained by the authors point to a very stable reaction of most of the esters to TiCl, (Refs 1-6) the data presented in papers (Refs 8-15) on the decomposition of the ethers and esters in the presence of aluminium halides (and other metal

Card 1/3

halides) permit to assume that similar reactions must take place

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1" The Investigation of the Conversion of Titanium SOV/79-28-7-2/64 Chloride With the Esters of Monobasic Acids. XII. On the Decomposition of TiCl₄.E Compounds

with some ester compounds of titanium chloride. Proceeding from the experimental results concerning the decomposition of the aluminium esters (Refs 12 - 14) it may be assumed that the decomposition of titanium chloride with esters takes place in such a case where the ester reacting with it consists of a radical of a strong acid and an alcohol radical of minor electronegative character; this is especially the case with isopropyl formiate, benzyl formiate and others; with compounds of titanium chloride and the corresponding esters of trichloroacetic acid, where the tendency to decompose must be greater. According to the conceptions on the polarization it would have to be expected that of the compounds TiCl4.2E, TiCl4.E and 2TiCl4.E the two latter display the greatest tendency to decompose. Thus, the results of the conversion experiments of titanium chloride with the above mentioned esters are mentioned and the authors determined that the data of Demarcay (Ref 7) (Demarse) on the compounds 2TiCl .E in liquid phase did not stand up to their checking. It was found that TiCl with the

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

The Investigation of the Conversion of Titanium SOV/79-28-7-2/64 Chloride With the Esters of Monobasic Acids. XII. On the Decomposition of TiCl $_A$. E Compounds

esters of trichloroacetic acid and benzoic acid yields compounds of the composition 1:1. The presence of the compounds 2TiCl₄.E in solid phase was proved as well as the instability of the binding of the second molecule of titanium chloride with the ester TiCl₄.E. There are 2 tables and 22 references, 18 of which are 4 Soviet.

ASSOCIATION:

Kubanskiy sel'skokhozyaystvennyy institut (Kuban'Agricultural

Institute)

SUBMITTED:

June 17, 1957

1. Titanium chlorides—Decomposition 2. Monobasic acid esters—Chemical reactions

Card 3/3

LYSENKO, Yu. A., Candidate of Chem Sci (diss) -- "Investigation of the interaction of titanium tetrachloride with the complex esters of monobasic acids".

Krasnodar, 1959. 14 pp (Rostov State U, Chair of Inorganic Chem), 150 copies (KL, No 21, 1959, 112)

86494 \$/078/60/005/008/030/031/xx B023/B066

5.3700

2209 1236 1273

AUTHORS:

Osipov, O. A., Cysenko, Yu. A.

TITLE:

Heat of Formation of Esterates of Titanium Tetrachloride

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 8,

pp. 1840-1845

TEXT: The authors investigated the heats of mixing of the systems:

TiCl₄ - iso-CH₃COOC₅H₁₁; TiCl₄-sec-CH₃COOC₈H₁₁;

 TiCl_4 - n-HCOOC₄H₉; and TiCl_4 - iso-HCOOC₅H₁₁.

On the basis of the results obtained per g-mole, also the chemical nature of each component may be determined. For systems in which chemical processes take place, the interaction between the components is clearly seen if the thermal effects per g-mole of each component are calculated (Figs.1-4, Tables 1-4). Further investigations of the authors confirm the hypothesis according to which compounds of the type 2TiCl₄. E (E = ester) are not

formed in the liquid phase. It was shown that in the compounds TiCl₄.E, Card 1/6

Heat of Formation of Esterates of Titanium Tetrachloride

86191 \$/078/60/005/008/030/031/XX B023/B066

titanium has the coordination number 5, with the ester oxygen of the ester molecule being the principal electron donor. There are 4 figures, 5 tables, and 11 references: 9 Soviet and 2 German.

SUBMITTED: March 31, 1959

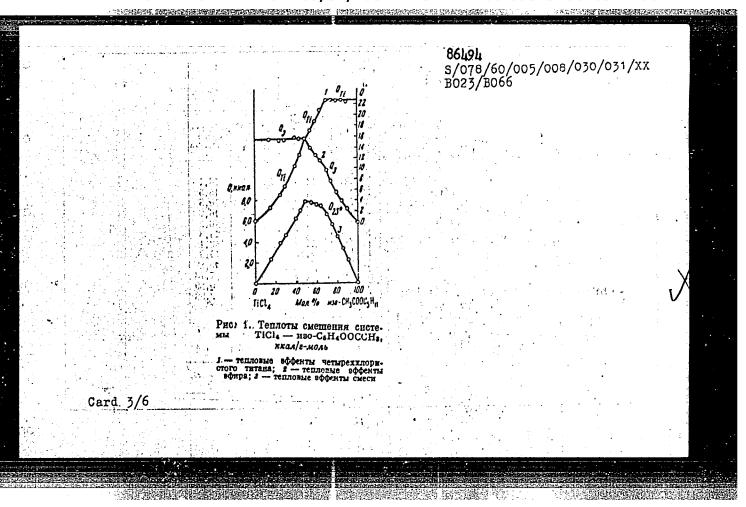
Legend to Fig. 1: Heats of mixing in the system TiCl₄ - i-C₅H₄OOCCH₃, kcal/mole; 1: thermal effects of TiCl₄; 2: thermal effects of the ester; 3: thermal effects of the mixture.

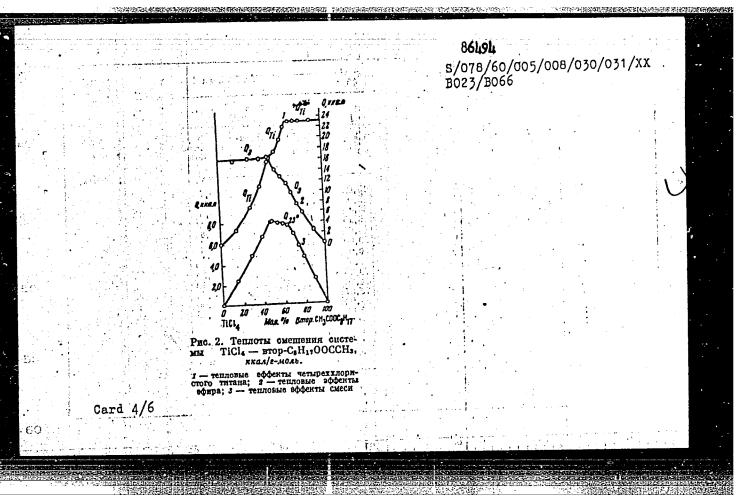
Legend to Fig. 2: Heats of mixing in the system TiCl₄ - sec-C₈H₁₇OOCCH₃, kcal/mole; for 1,2,3 see Fig. 1.

Legend to Fig. 3: Heats of mixing in the system TiCl₄ - n-C₄H₉OOCH, kcal/mole; for 1,2,3 see Fig. 1.

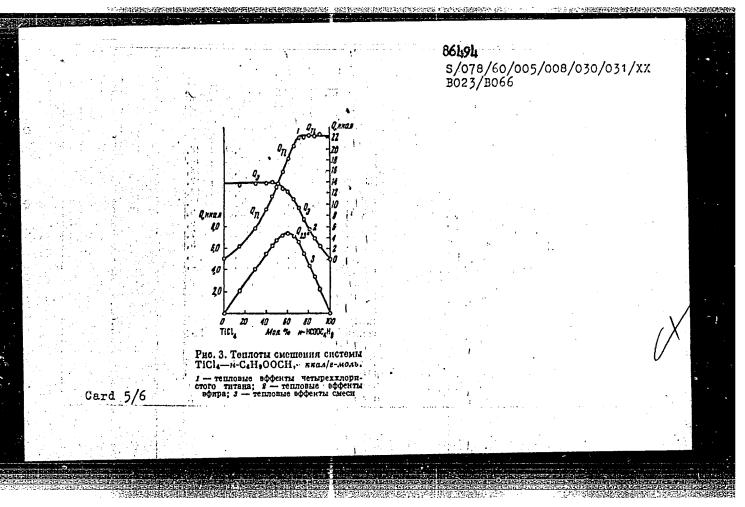
Legend to Fig. 4: Heats of mixing in the system TiCl₄ - i-C₅H₁₁OOCH, kcal/mole; for 1,2,3 see Fig. 1.

Card 2/6

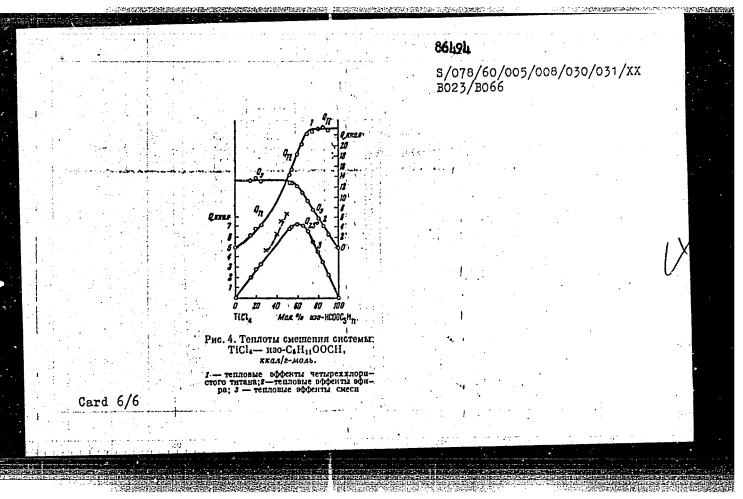




APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"



S/079/60/030/012/002/027 B001/B064

AUTHORS:

Osipov, O. A. and Lysenko, Yu. A.

TITLE:

Electrical Properties of the Systems Formed From Titanium

Tetrachloride and Esters of Trichloro Acetic Acid

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 12,

pp. 3866-3869

TEXT: This paper gives the dielectric constants of the systems of TiCl4 with ethyl trichloro acetate, n-butyl trichloro acetate, isobutyl trichloro acetate, isotrichloro amyl acetate, and the dipole moments of some etherates TiCl4*E, where E is the molecule of the ester. All determina-

tions were carried out by previous methods (Refs. 1, 3, 5) at $20\pm0.1^{\circ}$ C. Tables 1-4 show the dielectric constants (\mathcal{E}), densities (d), refractive indices $n_{\rm p}$, as well as the values of the orientation polarization and the mean dipole moments of the systems of TiCl₄ and the four esters of tri-

chloro acetic acid. The two last columns of the table show the deviations of the dielectric constants and polarization from the additive values.

Card 1/3

Electrical Properties of the Systems Formed S/079/60/030/012/002/027 From Titanium Tetrachloride and Esters of Tri- B001/B064 chloro Acetic Acid

Orientation polarization and dipole moment were determined by an equation suggested by the authors (Ref. 6). This equation shows the relation between the dielectric constant of the pure polar liquid and its dipole moment. In the case of binary liquid systems, this equation reads:

 $(4/3) \pi N \sum_{\mu} 2/3 kT = P^{or} = \left\{ \left[M_1 x_1 + M_2 (1 - x_1) \right] / \alpha \right\} \left\{ \left[(\epsilon - 1) (\epsilon + 2) \right] / 8\epsilon \right\}$

- $\{[(n^2-1)(n^2+2)]/8n^2\}$, where $\sum \mu$ is the mean dipole moment; x_1 is the molar part of the first component; M_1 and M_2 are the molecular weights of

the components; \mathcal{E} , d, and n = dielectric constant, density, refractive index of the system; P^{or} = orientation polarization of the solution. The data of Table 5 show that the introduction of chlorine atoms in the acid radical of the ester entails a considerable reduction of the dipole moment of the complexes with TiCl₄. The dielectric constants and the orientation

polarization show that in the trichloro acetates of TiCl, solutions, strong ly dissociated compounds, of equimolar composition form at 20°C. The dipole moments obtained are between 2.48 and 2.60 D, a magnitude usual for

Card 2/3

s/079/60/030/012/002/027 Electrical Properties of the Systems Formed From Titanium Tetrachloride and Esters of Tri- B001/B064 chloro Acetic Acid

members of a homologue series (Tables 1-4). There are 5 tables and 11 references: 9 Soviet, 1 US, and 1 British.

ASSOCIATION:

Rostovskiy-na-Donu gosudarstvennyy universitet

(Rostov-na-Donu State University)

SUBMITTED:

February 5, 1960

Card 3/3

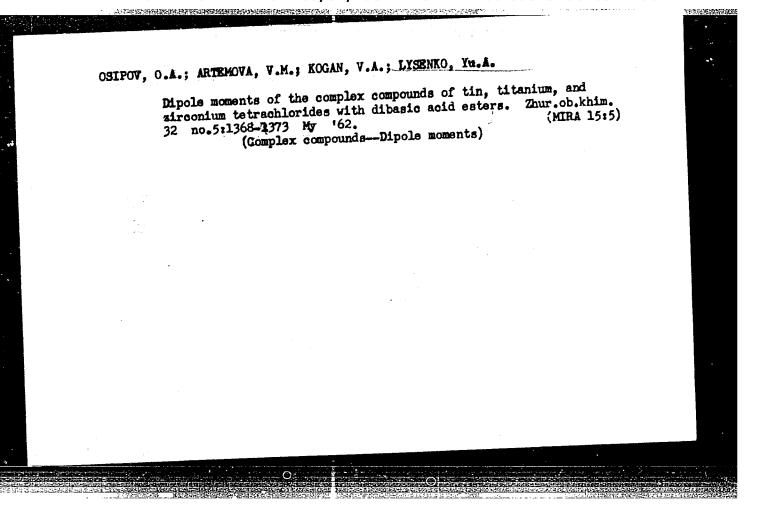
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

LYSENKO, Yu.A.; OSIPOV, O.A.

Interaction between titanium tetrachloride and chloromethyl acetate and ethyl stearate. Zhur. neorg. khim. 6 no.7:
1656-1661 Jl '61.

1. Kubanskiy sel'skokhozyaystvennyy institut, kafedra organicheskov fizicheskov i kolloidnov khimii.

(Titanium chloride) (Esters)



INSENKO, Yu.A.; OSIPOV, O.A., KRAVTSOV, Ye.Ye.

On the existence of titanium etherates. Zhur.neorg.khim. no.3:663-667
Mr '63.

1. Luganskiy sel'skokhozyaystvennyy institut, kafedra obshchey khimii.

(Titanium compounds) (Esters)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

1.59 Table 1		E PERMINDENTAL AND COME OF THE PERMIND		A AND SERVICE OF THE
LYSENK SMIRNOV	LYSENKO, Yu.N.			
	Some features of the inh in English]. Zhur.ob.bio	eritance of sex in swi 1. 18 no.3:242-248 My-	ne Lwith summary Je 157. (MIRA 10:	6)
	1. Khar'kovskiy zootekhn (SWINE) (SEX (B	icheskiy institut. IOLOGY)) (HEREDITY)		
·				
			• ·	

LYSENKO, Yu.P., inzh.

Unit for building up the feed-mechanism garriage of a pilger mill. Mashinostroenie no.6:56-57 N-D '62. (MIRA 16:2)

1. Ordena Lenina metallurgicheskiy zavod imeni Il'icha, g. Zhdanov. (Electric welding)

。 1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1

KALYUZHNAYA, L.D.; PORTNOV, S.M.; MAYKO, I.I.; LYSENYO, Z.A.; BRYANSKAYA, A.M.

Antagonistic properties of actinomyces isolated from soils in the Ukraine. Antibiotiki 7 no.3:19-24 Mr '62. (MIRA 15:3)

(ANTINOMYCES)

(UKRAINE—SOILS—MICROBIOLOGY)

KALMUZHNAYA, L.D.; BRYANSKAYA, A.M.: LITCUCHENKO, Ye.T.: DERVER, 1.6.;
LYSCHKO, Z.A.; MAYRO, T.I.; ICHTREY, S.M.

Isolation and study of actinomycetes-antagonicus from soils of some Ukrainian provinces. Mikrobiologiia 31 no.4:654-wit Ji-Ag (162.

1. Klyevakiy mat:tut opidemiologii i mikrobiologii.

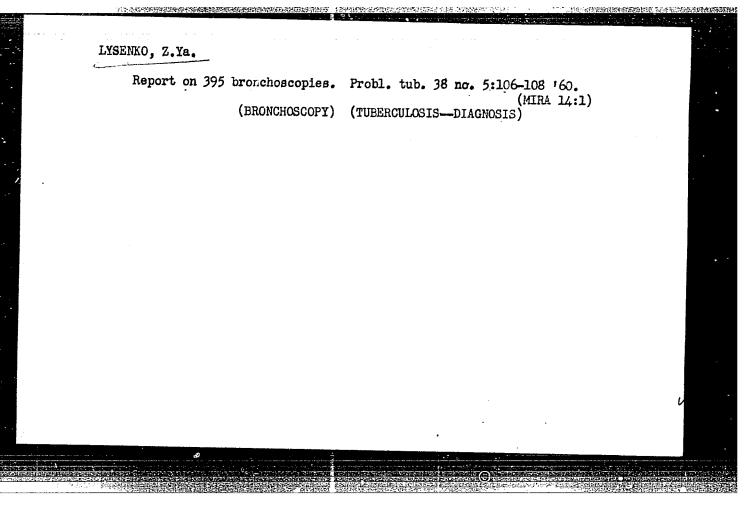
SKRIPKA, L.I. [Skrypka, L.I.]; LYSENKO, Z.A.

Actinomycetes antagonists in peaty soils of Kiev Province.
Mikrobiol. zhur. 27 no.6:20-26 '65. (MIRA 19:1)

1. Kiyevskiy nauchno-issledovatel'skiy institut epidemiologii
i mikrobiologii.

Using dimedrol as a soporific and sedative in the treatment of neuroses and neurotic states with distrubance of sleep. Vrach. delo no.6:75-76 (MIRA 15:1)

1. Sanatoriy imeni XXX-letiya Sovetskoy Ukrainy. (DIPHENHYDRAMINE) (NEUROSES) (INSOMNIA)



LYSENEOV, A. A.

Agriculture - Tannu-Tuva

Detached from production demands ("Vegetation of Tuva." K. A. Sobolevskaya. Reviewed by N. K. Vishnyakov, A. A. Lysenkov.) Korm. baza 3 no. 3, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, July 1952. UNCLASSIFIED.

```
Berling in Principal Control of the Principal 
LYSENKOV, G.L.
                                Effect of aerosol of various broncholytic drugs on bronchial
                                permeability. Sov.med. 21 no.6:91-94 Je '57.
                                                                                                                                                                                                                                   (MLRA 10:9)
                                 1. Iz vtoroy kafedry terapii (zav. - prof. B.Ye. Votchal) TSentral'-
                                 nogo instituta usovershenstvovaniya vrachey
                                                              (INHALATION THERAPY
                                                                             eff. of broncholytic substances on bronchial permeability)
                                                             (BRONCHI, eff. of druge on
                                                                            borncholytic substances, on bronchial permeability;
                                                            (ATROPINE, effects,
                                                                            on bronchial permeability, aerosols (Hus);
                                                            (PARASYMPATHCLITICS, effects.
                                                                           himalin, aerosols, on bronchial permeability (Eus))
                                                           (BRUNCHI, effect of drugs on,
                                                                          atropine & himalin aerosols, on permeability (Rus);
```

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

USSR/Huran and Animal Physiology - Digestion.

T-7

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 31844

Author

: Korovintsyn, V.T., Lysknkov, I.M.

Inst

Title

: On the Use of Regularities of the Parabiotic Process for

the Study of Stomach Illnesses.

Orig Pub

: V sb.: Ucheniye N. Yc. Vvedenskogo i klinich. praktike.

Odessa, 1957, 130-134.

Abstract : No abstract.

Card 1/1

- 73 -

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1" PODLEVSKIY, A.V.; KOGAN, V.Ya.; GORCHAKOVA, Yu.P.; YELIZAROVSKIY, G.I.; RYABOSHAPKA, A.P.; REZNIK, S.R.; GOLUBEV, T.I.; GINTSE, L.A.; RASKIN, M.M.; ZUYENKO, P.G.; KHOMIK, S.R.; KATSNEL'SON, I.A.; ZHILIN, S.I.; LYSENKOV, M.N.; ROMANOV, B.G.; SAVENKOV, D.A.; GIL', L.T.; LEVINA, Ye.S.; VOVKI, A.S.; POSLEDOV, F.F.

TO SECURITY HOLD THE PROPERTY OF THE PROPERTY

Annotations. Zhur.mikrobiol.,epid.i immun. 32 no.12:120-125 D '61.

1. Iz Leningradskogo instituta usovershenstvovaniya vrachey imeni Kirova (for Podlevskiy). 2. Iz Ukrainskogo nauchno-issledovatel skogo instituta kommunal'noy gigiyeny (for Kogan). 3. Iz Voronezhskogo meditsinskogo instituta (for Gorchakova). 4. Iz Arkhangel'skogo meditsinskogo instituta (for Yelizarovskiy). 5. Iz Kiyevskogo instituta epidemiologii i mikrobiologii (for Ryaboshapka, Reznik). 6. Iz zavoda meditsinskikh preparatov Leningradskogo myasokombinata imeni S.M.Kirova (for Golubev). 7. Iz Gosudarstvennogo kontrol'nogo instituta meditsinskikh biologicheskikh preparatov imeni Taraseviche (for Gintse). 8. Iz Chitinskogo instituta epidemiologii, mikrobiologii i gigiyeny (for Raskin). 9. Iz Ternopol'skogo meditsinskogo instituta (for Zuyenko). 10. Iz Rostovskogo instituta epidemiologii, mikrobiologii i gigiyeny (for Khomik). 11. Iz Chelyabinskogo meditsinskogo instituta (for Gil', Levina, Vovki, Posledov). (EPIDÉMIOLOGY-ABSTRACTS) (IMMUNOLOGY-ABSTRACTS)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

Daily attention should be giv en to construction work on collective forms. Sel'.stroi. 10 no.2:5 F '55. 1. Machal'nik upravleniya po stroitel'stvu v kolkhozakh Udmurtskoy ASSR. (Farm buildings)

MYSTEROV, N.G.. Could Teen Sci--(disc) "Ion transfer or on a go or the outcitor in the Blushing evet---or elletric crive cather. (Theoretical and
experimental studies)." For, 1957. 16 pp (Nin of Righer Schootion USSR.

Los Order of Lemin Fever Engineering Inst), 150 cories (LL, 49-58, 124)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

SOV/ 161 -58-1-20/33

AUTHOR:

Lysenkov, N. G., Engineer at the Chair of Electric Equipment of Industrial Plants at the Moscow Institute of Power Engi-

neering.

TITLE:

Stabilized Operation of a Mercury-Arc Rectifier Feeding the Exciter Winding of an Electrical Machine and Its Relation With the Discharge Resistance (Ustanovivshiyesya rezhimy raboty rtutnogo vypryamitelya na obmotku vozbuzhdeniya elektricheskoy

mashiny i razryadnoye soprotivleniye)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Elektromekhanika i avtomatika,

1958, Nr 1, pp. 158 - 164 (USSR)

ABSTRACT:

Stabilized modes of operation of one-way rectifiers with a reversing switch feeding the exciter windings of generators of ionic converters of electric drives with a reversing mechanism are investigated. The connection of the discharge resistance shunting the exciter winding, which represents a considerable inductivity, leads to noticeable modifications of a number of transient processes and of quasi-steady modes of operation of the mercury-arc rectifier (MAR). The commutation conditions at the anodes are changed. The rectified voltage QG of the MAR

Card 1/4

50V/ **161** -58-1-20/33

Stabilized Operation of a Mercury-Arc Rectifier Feeding the Exciter Winding of an Electrical Machine and Its Relation With the Discharge Resistance

at great control angles shows a dependence which is more complicated than $E_d = E_{do} \cos \alpha$. The magnitude of the discharge resistance has a considerable effect upon the mean value of the rectified voltage of the MAR, which is fed into the exciter windings at a constant control angle α . This is shown in a diagram. The dependence of the mean rectified voltage at the exciter winding upon the control angle α and the discharge resistance R_p was determined. By the method of successive approximation the functions of the control angle versus the cut-off angle φ (which is given by equation $(\overline{6})$) is obtained according to the different values of the factor Kn. It is shown how to construct the curves of $\alpha = f(\varphi_{\text{cut-off}})$. The computed curves of $\alpha = f(\phi_{\text{cut-off}})$ are given for values of $K_{\rm p}$ = 2, 3, 4, 5. It can be seen that from $\alpha > 30^{\circ}$ a discontinuous mode of operation of the MAR is possible. This is, however, only possible at small values of Kn. If the discharge voltage

Card 2/4

SOV/161 -58-1-20/33 of an Electrical Machine and Its Relation With the Discharge Resistance

at $K_p=2-5$ is chosen according to real conditions, a discontinuous mode of operation is only possible at $\alpha=60^\circ-65^\circ$. The curves of the mean rectified voltage which was applied to the exciter winding can be divided into two sections according to the control angle. In the first section the rectified voltage is determined according to the well known law $U_d^{=E_d}$. $\cos x$. The limit of the first section for values of K_p used in practical operation is between $\alpha=0$ and $\alpha \gtrsim 60^\circ$. In the second section $(\alpha > 60^\circ)$ the curve $U_d^{=f}(\alpha)$ exhibits a complicated character. The equations (1) to (6) were deduced without taking into account the voltage drop in the arc of the MAR, which is denoted by $-\Delta E$. If ΔE is taken into consideration equations (7) are obtained for U_d and (8) for U_p . A common solution of (7) and (8) yields (9). A comparison of (8) and (9) shows that the consideration of ΔE leads to a reduction of the voltage at the exciter winding (at identical values of α and K_p). The method

Card 3/4

Stabilized Operation of a Mercury-Arc Rectifier Feeding the Exciter Winding of an Electrical Machine and Its Relation With the Discharge Resistance

of computation presented permits to construct with sufficient accuracy the curve describing the rectified voltage versus control angle function, if the exciter windings of electrical machines with a parallel discharge resistance and with other similar inductive loads are fed from ionic transformers. The formulae obtained hold for a rectification of an arbitrary number "m" of phases. There are 5 figures and 3 references, which are Soviet.

ASSOCIATION:

Kafedra elektrooborudovaniya prompredpriyatiy Moskovskogo energetioneskogo instituta (The Chair of Electrical Equipment of Industrial Plants at the Moscow Institute of Power Engineering)

SUBMITTED:

January 21, 1958

Card 4/4

MOROZOV, D.P., doktor tekhn. nauk, prof.; LYSENKOV, N.G., inzh.

Electronic converter as exciter in the generator-moror system of a reversing mill. Trudy MEI no.30:253-268 '58. (MIRA 12:5)

1. Moskovskiy ordena Lenina energeticheskiy institut, Kafedra elektrooborudovaniya promyshlennykh predpriyatiy.

(Electric machinery)

SOV/110-59-6-12/24

AUTHORS: Morozov, D.P., Doctor of Technical Sciences and

Lysenkov, N.G., Candidate of Technical Sciences

TITLE: A Single-Valve Supply Circuit for Exciting a Generator

used in a Reversing Mill Drive (Odnoventil'naya skhema pitaniya obmotki vozbuzhdeniya generatora v sisteme

elektroprivoda reversivnogo stana)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 6, pp 51-57 (USSR)

ABSTRACT: Arc rectifiers are now often used to supply the field

of generators used in generator-motor drives for reversing mills. The cross-over system of valve connection is used to reverse the generator field

current. With this method reversing and other processes are effected by grid control of the rectifier. The system is efficient but wasteful of plant as many items are duplicated. The defects of the cross-over system are overcome by the use of a single-valve circuit with

a reverser, as shown in Fig la and lb. In this case, the direction of rotation is reversed by altering the polarity of the generator field winding. This article

analyses the transient processes of the system,

Card 1/4 considering first the transients in the generator field

SOV/110-59-6-12/24

A Single-Valve Supply Circuit for Exciting a Generator used in a Reversing Mill Drive

winding when the motor is run up to speed. The process, which is indicated graphically in Fig 2, presents no special interest as it is just the same as with excitation from a normal exciter. Transients in the generator field winding during retardation of the motor are then considered. The cases of application of negative potential to the grid and alteration of the grid control angle are examined separately; transient curves for the first case are given in Fig 3 and for the second in Fig 4 and 5. It is considered that the best methods of stopping the motor are either to disconnect the generator field winding from the supply or to apply a negative potential to the rectifier control grid. It is in any case best to exert grid control before disconnecting the field winding, so saving the operating contacts. The transient process in the generator field winding during reversal of the motor is then considered and the appropriate curves are given in

Card 2/4

SOV/110-59-6-12/24

A Single-Valve Supply Circuit for Exciting a Generator used in a Reversing Mill Drive

不是因为我们的种种的自己的现在分词是不是不知识的证明的

Fig 6. The transient process of reversing with the single-valve circuit and reverser differs from that in the cross-over system mainly in the absence of inverter conditions. When the field current is reduced to zero the energy stored in the generator field winding is expended in the discharge resistor and in the resistance of the winding itself. The single-valve circuit with reverser is as good as the cross-over circuit in respect of the processes of starting, changing speed and reversing. The use of a reverser in the generator field circuit has practically no influence on the reversing time because the field current passes through a discharge resistance whilst the contacts are being reversed; currents are plotted in Fig 6. The main disadvantage of the single-valve circuit with reverser is the presence in the generator field circuit of the reverser contacts and discharge resistance. However, modern contactors are very reliable and the losses in the discharge resistance are small. The use of the

Card 3/4

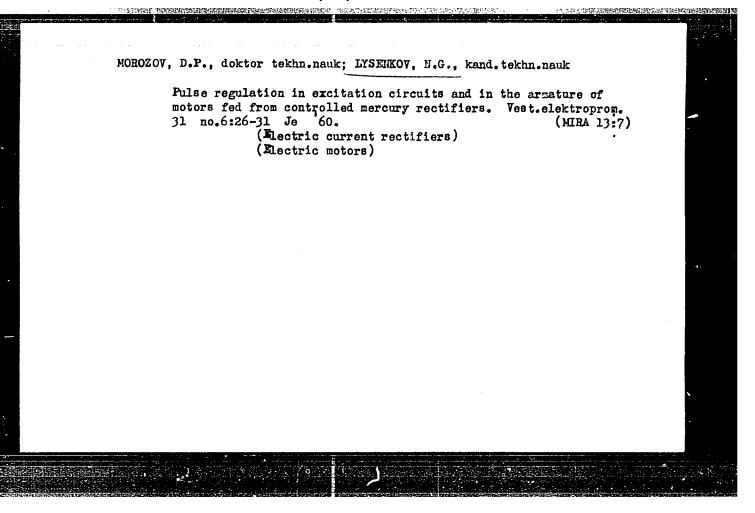
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

SOV/110-59-6-12/24

A Single-Valve Supply Circuit for Exciting a Generator used in a Reversing Mill Drive

single-valve system with reverser is accordingly recommended for large reversing drives. There are 6 figures and 3 Soviet references.

Card 4/4



Insurprises of Prilimenty commission to recommission in principle of priliments of the commission of t		/ys/	<u>-</u> .	<u></u>	e V	, 1	1.6		±4,.	Property and the second	-	. 0
	Nethods of Calculating Characteristics of D-C	ineer. Field Reactors Magnetic Amplifiers	Lee Rectifier	Frequency Control of a Microsotor	Engineer. Contact Semiconductor Converter for Cas-Tube	nes. Pulse Centrol and Regule. Electronic Cenverters or With a Wide Range of	Endidates of Technical Sciences lectronic Fraquency Changers octors of Technical Sciences	httingri_Kala, Candidate of Technical Sciences. Freezit State and Frospecia of the Development of Electronically Controlled Electric Drives. 104	į	Freezopumoys ob'systlammoys sorshchaniys po artomatizately proisrodatesmyth proissor v sankinostropatid attomation conti. M, hoscow, 1999 Elettoprived 1 avtomatizatelys promyhlenyth ustamoret; truty sorsechaniya (Eletto Drive and Antomation in industrial Systems Transactions of the Conference) Noscow, Gosenargoisdat, 1950. 470 p. 11,000 copies printed. General Eds.: N.I. Petroy, A.A. Sirvila, and N.G. Chilking Eds.: I.I. Md, and E.P. Milayer; Tech. Eds.: E.P. Vermin, and G.Fs. Larland. FURTOS: The collection of reports is intended for the scientific and technical parsonnal of extentific research institutes, plants and schools of higher extention. FURTOS: The book is a collection of reports submitted by melectific vorters at plants, socientific institutes and schools of higher schools of higher at the first All-Chalen Conference was called by the Andray of Science in Menhine Statistical Flowers to Industry hald in Second on the Antication of Industrial Processes in Menhine Statistics of Statistics on Antication and Industrial Processes in Menhine Statistics on Anticated Electric Drives in Industry hald in Second on Market by the Andray of Science in USA, the Gosphas Statistics of Statistics on Anticated Processes on Michael Statistics on Anticated Allectric Drives in Industry hald in Second in Industrial Statistics on Anticated Allectric Drives in Industry (State Committee on Anticated Allectric Drives in Anticated Allectric Processes on Anticated Allectric Drives in Anticated Allectric Drives in Anticated Allectric Processes on Anticated Allectric Drives in Anticated Al	,	0

OIEFIR, F.F., kand.tekhn.nauk; LYSENKOV, N.G., kand.tekhn.nauk

Automatic control of strip thickness on thin-sheet hot rolling mills. Avtom.i prib. no.3:72-78 JI-S '62. (MIRA 16:2)

Institut avtomatiki Gosplana UkrSSR.
 (Rolling mills)
 (Electronic control)

LYSEN OV, N.G., kand.tekhn.nauk; OLEFIR, F.F., kand.tekhn.nauk;

KOVALEV, N.G.; TERESHKIN, A.A.; KIVVA, A.N.

Noncontact system of optimum pulsed control of an electric drive. Avtom. i prib. no. 1:11-15 Ja-Mr '64. (MIRA 17:5)

< < < < < < < < < < < < < < >) -05 = SWT(d)/EWP(v)/EWA(d)/SWP(h)/SWP(k)/SWF(1) = H-as/0137/64/000/009/0020/D021 LOGESSION NR: ARLOL8226 SOURCE: Ref. zh. Metallurgiya, Abs. 90127 AUTHOR: Lyssenkov, N. G. TITLE: Loading and speed of response characteristics of an electric drive for pressure devices for automatic control of strip thickness on plate rolling mills CITED SOURCE: Sb. Avtomatiz. metallurg. proiz-ve. Kiyev, Gosteknizdat USSR, 1964, 162-175 TOPIC TAGS: rolling mill, electric drive, automatic control equipment, automatic regulation, pressure control/ rolling mill 1680 TRANSLATION: Basic requirements have been determined for an electric drive for thin plate rolling mill type 1680. The method proposed for determining loading and speed of response characteristics of an electric drive enables enables the thorough analysis and selection of electric drives for pressure devices working under and the as of automatic control of strip thickness in thin plate

		(O)				
L 32082-65 ACCESSION NR: 1	AR4048226			물리 16시간 및 18시간 (1915년 - 1915년 - 1915년 1일 - 1915년 - 1 1일 - 1915년 - 1	O	
rolling mills. characteristics linishing bank onecessity of ins pressure devices reduc r, i, from	or an elec of thin pla stalling mo	tric drive te rolling re powerful g n change	for pressur mills type . motors of in the gear	e devices 1680 showed type DP-72	in the d the	
Sub code: 16,66		encl: 00	A Maria Land Anna Anna Anna Anna Anna Anna Anna A	e tera je substituije. P	engine i s	
Card 2/2						

ACC NR: AP7004261

(A)

SOURCE CODE: UR/0432/66/000/003/0008/0011

AUTHOR: Lysenkov, N. G. (Candidate of technical sciences); Kovalev, N. G.

ORG: none

TITLE: Electric-drive control system with transistors and pulse regulation of generator voltage

SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 3, 1966, 8-11

TOPIC TAGS: voltage regulator, automatic regulation, electric drive

ABSTRACT: The development is reported of a transistorized system for separation and regulation of feedback signals in nonreversible and reversible electric drives. The system is intended to supplant the magnetic amplifiers and multivibrators hitherto used for magnetic separation of circuits in the amplifying unit of the drive. The reversible drive comprises a transistorized pulse-type generator-voltage regulator, a functional armature-current instantaneous turn-off circuit, an automatic generator-field discharge device, and a combination (negative-voltage positive-current feedback. The system was developed by the Automation Institute, Ministry of Instruments, Automation and Control; it was used on 13 electric drives installed on sheet-mill screwdown mechanisms at metallurgical plants. Orig. art. has: 3 figures.

SUB CODE: 09, 13 / SUBM DATE: none

Card 1/1

UDC: 62 - 521

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

TATARINOV, Valentin Petrovich; LYSENKOV, Nikolay Iliich; YERMOLINSKIY, I.A., red.

[New technology of working cutovers in Udmurtia] Novaia tekhnologiia razrabotki lesosek v Udmurtii. Moskva, Lesnaia promyshlennost', 1964. 62 p. (MIRA 18:3)

TATARINOV, V.P.; LYSENKOV, N.I.; NOVOSEL'TSEV, N.V., red.;
MILIKESOVA, I.F., tekhn. red.

[Working felling areas with the preservation of young

TO THE CONTROL OF THE PROPERTY OF THE PROPERTY

[Working felling areas with the preservation of young growth and young stands in the logging camps of Udmurtia] Razrabotka lesosek a sokhraneniem podrosta i molodniaka v lesopromkhozakh Udmurtii. Moskva, TSentr. in-t tekhn. informatsii i ekon. issledovaniia po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl., 1963. 26 p. (MIRA 16:8)

(Udmurt A.S.S.R.--Lumbering)

BEAR STEEN STEEL CONTRACTOR OF THE STEEL STEEL

LYSENKOV, Nikolay Konstantinovich; BUSHKOVICH, Vyacheslav Iosifovich; PRIVES, Mikhail Grigor yevich, prof.; GINZBURG, V.V., red.; RULEVA, M.S., tekhn.red.

[Textbook of normal human anatomy] Uchebnik normal noi anatomii cheloveka. Pod obshchei red. M.G.Privesa. Izd.5., dop. i perer. Moskva, Gos.izd-vo med.lit-ry, Leningr.otd-nie, 1958. 783 p. (MIRA 12:7)

(ANATOMY, HUMAN)

LYSERKOV, N.V.; BOLDYREV, I.V.; KRYUCHKOVA, V.G.

Aliphatic - arcmatic esters of carbonic acid. Ukr. khim. zhur.
30 no.12:1330-1332 '64

1. Institut organicheskov khimii AN UkrSSR.

STARIKOV, P.V.; LYSENKOV, P.M.

Case of cattle poisoning with hay containing Thermopais.
Veterinariia Al no.2:72 F '65. (MIRA 18:3)

1. Zamestitel' nachal'nika Upravleniya veterinarii Tselinnogo krayevogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvonnykh produktov (for Starikov). 2. Glavnyy veterinarnyy vmeh Upravleniya veterinarii Tselinnogo krayevogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Lysenkov).

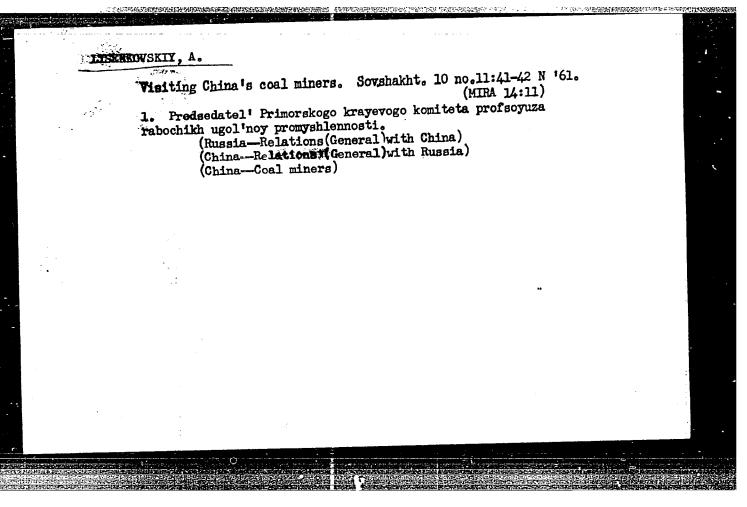
	THE PROPERTY CONTRACTOR OF THE PARTY OF THE	OTOL TOO	THE STATE OF THE PARTY OF THE P
L 5098-66 EWT(d)/EWP(c)/EWP(s)	*)/T/EWP(k)/EWP(h)/EWP SOURCE CODE: UF	(1)/ETC(m) WW 3/0193/65/000/009/0025/0026	7
AUTHOR: Lysenkov, Yu. I.; Korolev			12.
ORG: none		32 B	
TITLE: UKP-2 ultrasonic flaw determined by the Source: Byulleten' tekhniko-ekon	. 14	,	
TOPIC TAGS: wire, steel wire, wire flaw detector	re flaw, flaw detection,	flaw detector, ultrasonic	
ABSTRACT: The <u>UKP-2</u> ultrasonic te and detecting surface defects in s long has been developed. The wire its axis with longitudinal, transv	steel wires 0.5—3.0 mm is is irradiated through werse, and torsional-ultransport	in diameter and 1000—5000 mm a liquid medium obliquely to rasonic waves causing so-	
called "wire waves", which are ver The waves reflected from the defect "UKP-2 makes it possible to detect clusions and to root out defective	cts produce impulses on t surface defects as shall	the detector screen. The low as 0.01 mm and small in-	
SUB CODE: IE,GP/SUBM DATE: none/	ORIG REF: 000/ OTH R	6.621 0	
	### ##################################	04010643	

PIK, I.Sh.; Prinimali uchastiye Skundina, F.I.; LYSKNKOVA, R.I.

Quality of products from polytetrafluoroethylene as determined by the conditions of its treatment. Plast.massy no.6:30-32 '60.

(MIRA 13:11)

(Ethylene) (Plastics)



ABRAMOV, M.A.; ALIVERDIZALE, K.S.; AMIROV, Ye.M.; ARENSON, R.I.; ARSEN'YEV, S.I.; BAGDASAROV, R.M.; BAGDASAROV, G.A.; BADAMYANTS, A.A.; DANIYELYAN, G.N.; DZHAFAROV, A.A.; KAZAK, A.S.; KERCHENSKIY, M.M.; KONYUKHOV, S.I.; KRASNOBAYEV, A.V.; KURKOVSKIY, A.I.; LALAZAROV, G.S.; LARIONOV, Ye.P.; LISTENGARTEN, M.Ye.; LIVSHITS, B.L.; LISIKYAN, K.A.; LOGINOVSKIY, V.I.; LYSENKOVSKIY, P.S.; MOLCHANOV, G.V.; MAYDEL'MAN, N.M.; OKHON'KO, S.K.; ROMANIKHIN, V.A.; ROSIN, I.I.; RUSTAMOV, E.M.; SAHKISOV, R.T.; SKRYPNIK, P.I.; SOBOLEV, N.A.; TARATUTA, R.N.; TVOROGOVA, L.M.; TER-GRIGORYAN, A.I.; USACHEV, V.I.; FAYN, B.P.; CHICHEROV, L.G.; SHAPIRO, Z.L.; SHEVCHUK, Yu.I.; TSUDIK, A.A.; ABUGOV, P.M., red.; MARTYNOVA, M.P., vedushchiy red.; DANIYE-

[011 field equipment; in six volumes] Neftiance oborudovanie; v shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.3. [Petroleum production equipment] Oborudovanie i instrument dlia dobychi nefti. 1960. 183 p.

(MIRA 13:4)

(Oil fields -- Equipment and supplies)

KHOKHLOV, Yu.I.; LYSEVICH, G.G.

Mechanical brush for priming leather with aqueous nitro emulsions.

Obm. tekh. opyt. [MLP] no.29:19-23 '57. (MIRA 13:1)

(leather industry—Equipment and supplies)

USSR/Farm Animals. Swine.

Q-2

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101165

Author : Lyshchina, L.P.

Inst All-Union Scientific Research Institute of

Animal Husbandry.

Title Meat Fattening of Swine with Corn Rations

When Protein Nutrients of Various Quality

are Used.

Orig Pub:

Byul nauchno-tekhn. inform. Vses. n.-i. in-t zhivotnovodstva, 1957, / vyp. / aspirantskiy,

20-23

Abstract: When pigs were fattened for meat with corn (85

percent of nitritional value), fish flour and soybean cakes (42 percent of the ration's digestible protein) were replaced by fodder

Card 1/2

24

CIA-RDP86-00513R001031120011-1" APPROVED FOR RELEASE: 08/31/2001

USSR/Farm Animals. Swine. Q-2

Ref Zhur - Biol., No. 22, 1958, 101164 Abs Jour:

Author Lyshchina, L.P.

Inst

Utilization of Fodder Protein in Meat Fatten-Title

ing of Pigs with Corn Rations.

Orig Pub: Sots, s. kh. Uzbekistana, 1957, No. 12, 59-62

Abstract: Fodder protein obtained from ricinic oil cakes according to the method of S. S. Perov was included in amounts of 42 percent (2nd test group) and of 22.5 percent (3rd test group) of the total digestible protein of the rations into corn rations given to immature sows. The resulting average daily weight gains of such immature sows of the 2nd group were 15.5 per-

Card 1/2

23

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

USSR/Farm Animals. Swine.

Q-2

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101164

PROFESSIONAL PROFE

cent higher and fodder unit expenditures per each kg of weight gain were 0.76 percent lower as compared to controls; the figures for immature sows of the 3rd group were 8.2 and 0.28 percent, respectively. Immature sows of the 2nd group utilized 46.15 percent of digestible nitrogen, and of the 3rd group 45.4 percent, whereas controls utilized 41 percent of

digestible nitrogen.

Card 2/2

CIA-RDP86-00513R001031120011-1" APPROVED FOR RELEASE: 08/31/2001

LYSHCHINA, L.P., Cand Biol Sci — (diss) "Use of fodder fattening fattening furbiding."

protein in the breefxfreeding of growing piglings on corn."

Mos, 1958, lh pp (All-Union Acad of Agr Sci im V.I. Lenin.

All-Union Sci kes Inst of "nimal Husbandry. Laboratory of Protein) (KL, 23-58, 104)

- 35 -

LYSHCHINSKIY, G. P.

"Theoretical and Experimental Investigation of Circuits of Electric Drive Systems for Modeling Equipment." Sub 2 Nov 51, Moscow Crder of Lenin Power Engineering Inst imeni V. M. Molotov

Dissertations presented for science and engineering degrees in Moscow during 1951

SO: Sum. No. 480, 9 May 55

SHCHINDKIT

112-2-3455

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957,

Nr 2, p. 135 (USSR)

AUTHOR:

Lyshchinskiy, G.P.

TITLE:

More on the Electrical Equipment of Machines in the Printing Industry (K voprosu elektrooborudovaniya mashin

poligraficheskoy promishlennosti)

PERIODICAL: Nauch. zap. L'vovsk. politekhn. in-t, 1955, Nr 34, pp.233-238

ABSTRACT:

Squirrel-cage induction motors are used to drive machines in the printing industry and in rare cases woundrotor motors are used since the great majority of machines operate at constant speed. Speed control (when required) is realized mechanically. Certain motors are equipped with reversers for adjustment operations and the simplest

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1" More on the Electrical Equipment of Machines in the Printing (Cont.)

type of drive automation (a locking device for paper tearing, automatic switching from wye to delta during starting, etc). The absence of multiple motor drive in printing machines complicates their kinematics and operation, lowers their efficiency and output, and the quality of the finished product. Insufficient motor load causes a sharp drop in the power factor. Due to insufficient machine electrification and automation it is not possible to set up assembly line production and automated shops. To simplify machine design, improve product quality, increase output, and ensure continuous operation, it will be necessary to: 1) adopt automatic multiple motor drive; 2) automate the type setting and other processes by using electric magnets; 3) replace the mechanical synchro-transmission by a system of electrical synchro-transmission; 4) make broader use of photoelectric automation in type setting and zincographic operations; 5) campaign for the adoption of the "electric spark" methods of engraving.

Card 2/2

Ya.V.M.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1"

GANDZHA, L.I., kand.tekhn.nauk,dotsent; LYSHCHINSKIY, G.P., kand.tekhn.
nauk, dotsent

Baviaw of A.A. Sirotin's book "Automatic control of electric drives."

Elektrichestvo no. 11:94-95 N '60. (MIRA 13:12)

(Automatic control) (Electric driving)

(Sirotin, A.A.)

3h782 \$/200/62/000/001/001/004 D201/D302

16.5000 (1031, 1132, 1329)

AUTHORS:

Bakhovets, B.A., and Lyshchinskiy, G.P.

THE PROPERTY OF THE PROPERTY O

TITLE:

Synthesis of linear systems of an automated electric

drive in the control regime

PERIODICAL:

Akademiya nauk SSSR. Sipirskoye otdeleniye. Izvestiya,

no. 1, 1962, 19 - 29

TEXT: The author postulate that the curve $\mathbf{x}_n(t)$ of the transient process of the system should be close to a curve $\mathbf{x}_n(t)$ which is assumed to satisfy the requirements imposed on the system. Let the chosen structure be characterized by a differential equation with constant coefficients. If $\mathbf{x}_n(t)$ is chosen as a solution of

 $\sum_{k=0}^{m} c_k x_m^{(k)} = 0$ (5)

with initial conditions Card 1/3

S/200/62/000/001/001/004 D201/J302

Synthesis of linear systems of an ...

$$x^{(k)}(0) = x_0^{(k)}[k = 0, 1, 2,...(n - 1)]$$
 (2)

and m < n, a relation $a_k = r(c_k)$ becomes fundamental for the problem. The choice of the law governing the control regime is discussed. The synthesis of parameters of a chosen system structure is carried out as follows: In general the system in the control state may be described by an operator equation; it is shown that the latter can always be reduced to

$$\sum_{k=0}^{n} a_k x_n^{(k)} = 0$$
 (1)

with initial conditions (2). Finally, the relationship between coefficients a_k and c_k is determined from the condition that the creror resulting by substituting function $x_n(t)$ (3) be minimum. This leads to

Card 2/3

 \circ

8/200/62/000/001/001/004 D201/D302 Synthesis of linear systems of an ...

$$\sum_{k=0}^{m-1} c_k \int_0^{\infty} x_n^{(k)} x_n^{(l)} dt = -\int_0^{\infty} x_n^{(m)} x_n^{(l)} dt \quad [i = 0, 1, 2, \dots (m-2)];$$

$$c_0 \sum_{k=1}^n a_k x_0^{(k-1)} = a_0 \sum_{k=1}^m c_k x_0^{(k-1)}.$$
(20)

$$c_0 \sum_{k=1}^{n} a_k x_0^{(k-1)} = a_0 \sum_{k=1}^{m} c_k x_0^{(k-1)}. \tag{20}$$

it is stated that the infinite integrals can be comparatively easily evaluated. The error is evaluated by applying the inequality of Bunyakovskiy. Two numerical examples are given. A case of possible instability is indicated. There are 6 figures and 10 Soviet-bloc references.

ASSOCIATION: Novosibirskiy elektrotekhnicheskiy institut (Hovosi-

birsk Electrotechnical Institute)

July 12, 1961 SUBMITTED:

Card 3/3

KOSTENKO, M.V.; NEYMAN, L.R.; VENIKOV, V.A.; FOPKOV, V.I.; MEL'NIKOV, N.A.;
VOROBYYEV, A.A.; KUTYAVIN, I.D.; LYSHCHINSKIY, G.P.

V.K. Shcherbakov; on his 60th birthday and 35th anniversary of his educational work. Elektrichestvo no.8:93-94 Ag '63.

(MIRA 16:10)

BAKHOVETS, B.A.; LYSHCHINSKIY, G.P.

THE REPORT OF THE PROPERTY OF THE PARTY OF T

Solution of some problems of the invariance theory using a differentiation method. Izv. SO AN SSSR no.10 Ser. tekh. nauk no.3: 126-130 '63. (MIRA 17:11)

1. Novosibirskiy elektrotekhnicheskiy institut.

L 20767-65 EWT(d)/EPF(n)-2/EWP(1) Po-4/Pq-4/Pg-4/Pu-4/Pk-4/P1-4 IJP(c)/ SSD/ASD(a)-5/AFMDG/AFETR/AFT(-4)/RASM(d)/RASM(a)/ESD(dp) WW/BC ACCESSION NR: AP5003796 S/0144/64/000/010/1262/1270

AUTHOR: Bakhovets, B. A.; Lyshchinskiy, G. P.

TITLE: Method for constructing automatic control systems for electric drives

SOURCE: IVUZ. Elektromekhanika, no. 10, 1964, 1262-1270

TOPIC TAGS: automatic control system, electric rotating equipment, mechanical power transmission equipm

Abstract: Optimal control systems are being more and more used for electric drives which function intermittently. Such control systems in the case of rolling mills, artillery-siming installations, and the like, make it possible either to secure greater productivity or to reduce the capacity of the motors in use. Here pressing problems arise in devising control systems which will be optimal. The author notes that earlier studies in this area have failed to deal with such important questions as the control law, analysis of initial conditions, choice of switching points, etc. He studies the synthesis of optimal systems for electric drives, using the method of differentiating equations of the appropriate laws of motion. Orig. art. has 6 graphs and 12 formulas.

Card 1/2

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031120011-1

ARTHREE STANKER STANKER FRANKTINGER FRANKT FRANK BOOK FRANKT		A CONTROL OF THE CONT
T 25050 CC	유지를 보았다. 이 사람이 가를 가려면 하지만 하는데 되었다. 물건 구나의 화하는 것만 하지만 한 이용하면 하는데 되었다.	
L 20767-65 ACCESSION NR: AP5003796	가 있어요. 그는 이 보다를 본 수 있다고 말고 있다. 시간 다 지 한 경기를 보고 있는 것이라고 있다. 그 같아 있는 것이다.	
		O
ASSOCIATION: mone	공료하다 하고도 생활성이다. 하다	
SUBWITTED: 22Feb63	ENCL: CO	OUT CORD
[18]	원하다 그렇게 되었다. 그 사람들은 사람들이 되었다. 그 없는데	SUB CODE: IE, EE
No ref sov: 010	OTHER: 000	JPRS
[6] 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
	. 12 전환 전환 경험 경험 경험 경험 경험 경험 경험 경험 경험 - 1 - 1 시간 경험 경험 경험 경험 경험	
. 프로그램 기계를 가는 이 사람들이 보고 등을 보고 있다. 그리고 있는 것이 되었다. 		
	and the second s	
9ard 2/2		
		and the property of the proper
financia de la companya del companya de la companya del companya de la companya d		
THE RESERVE OF THE PROPERTY OF THE PARTY OF	PARTICULAR DANGER DE SERVICION DE LA CONTRACTOR DE LA CON	creating of the comment of the comme

CANDZHA, L.I.; LYSHCHINSKIY, G.P.; VASIL'YEV, A.I.; BR-ZE, Yu.K.

Transient processes and oscillations in a nonlinear generator-motor system with varying magnetic flux. Trudy Inst. avton. i elektrometr. SO AN SSSR no.6:64-76 '64. (MIRA 17:10)

SOURCE CODE: UR/0271/65/000/012/A018/A018

AUTHOR: Lyshchinskiy, G. P.; Parshin, V. G.

TITLE: Increasing the reliability of a relay by redundancy

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhnika, Abs. 12A121

REF SOURCE: Sb. dokl. k Novosib. nauchno-tekhn. konferentsii po mashinostr. Ch. 2. Novosibirsk, 1964, 11-16

TOPIC TAGS: electric relay, circuit reliability, reliability engineering

ABSTRACT: Relay is one of the most reliable units in multi-element systems. The shortcomings universally accepted methods for analyzing the reliability of relays are noted. It is indicated that in determining the reliability of a relay it is necessary to include simultaneously the probability of failures in windings and contact groups. Otherwise, the results will be incorrect. Redundancy is recommended as one of the most effective methods of increasing reliability. A graphical method of studying the redundancy problem is discussed. A table is also presented from which the maximum reliability of a contact system can be determined. [Translation of abstract] 1 illustration and bibliography of 2 titles. M. M.

SUB CODE: 09, 14

Card 1/1

62-52:621.374.36

L11831-65 EXT(1)/EMP(m)/EMG(s)-2/EMG(v)/EPR/FCS(k)/EMA(1) Pd-1/2e-5/Ps-1/ Pi-1/Fw-1 HM ACCESSION NR: AP50109-4 AUTHOR: Kuleshov, V. I.: Lyshchinskiy, V. V.; Haksimov, S. M.; younger, V. K. TITLE: Regulated nozzle for wind tunnels. Class 42, No. 169841 SOURGE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 120 TOPIC TAGS: wind tunnel, regulated nozzle, nozzle ABSTRACT: This Author Certificate introduces a regulated nozzle for wind tunnels with a rigid intake section and a flexible outlet section. Wind tunnels with a rigid plate has been mounted to form a In the flexible section a rigid plate has been mounted to form a In the flexible section a rigid plate has been mounted to form a In the flexible section in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. (AC) [AC] Cord 1/2			
ACCESSION NR: AP50109:4 AUTHOR: Kuleshov, V. I.: Lyshchinskiy, V. V.; Haksimev, S. M.; J. Solodkin, V. K. TITLE: Regulated nozzle for wind tunnels. Class 42, No. 169841 TITLE: Regulated rizobreteniy i tovarnykh znakov, no. 7, 1965, 120 SOURGE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 120 TOPIC TAGS: wind tunnel, regulated nozzle, nozzle ABSTRACT: This Author Certificate introduces a regulated nozzle for wind tunnels with a rigid intake section and a flexible outlet section, wind tunnels with a rigid intake section and a flexible outlet section. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support including the correction ment secures a more uniform Mach number field including the correction for the boundary layer thickness.		/_ /	
ACCESSION NR: AP50109:4 AUTHOR: Kuleshov, V. I.: Lyshchinskiy, V. V.; Haksimev, S. M.; J. Solodkin, V. K. TITLE: Regulated nozzle for wind tunnels. Class 42, No. 169841 TITLE: Regulated rizobreteniy i tovarnykh znakov, no. 7, 1965, 120 SOURGE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 120 TOPIC TAGS: wind tunnel, regulated nozzle, nozzle ABSTRACT: This Author Certificate introduces a regulated nozzle for wind tunnels with a rigid intake section and a flexible outlet section, wind tunnels with a rigid intake section and a flexible outlet section. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support including the correction ment secures a more uniform Mach number field including the correction for the boundary layer thickness.	- 17991.AC EXT(1)/EXP(m)/EXG(s)-2/EXG((v)/EPR/FCS(k)/ENA(1) PG-1/F6-3/10-4/	
AUTHOR: Kuleshov, V. I.; Lyshchinskiy, V. V.; Haksimov, J. M., Solodkin, V. K. TITLE: Regulated nozzle for wind tunnels. Class 42, No. 169841 TITLE: Regulated nozzle for wind tunnels. Class 42, No. 169841 TOPIC TAGS: Wind tunnel, regulated nozzle, nozzle ABSTRACT: This Author Certificate introduces a regulated nozzle for wind tunnels with a rigid intake section and a flexible outlet section. Wind tunnels with a rigid plate has been mounted to form a In the flexible section a rigid plate has been mounted to form a rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support (AC) for the boundary layer thickness.	Pi-u/Pw-4 NW AP5010934	UR/0286/65/000/00//0122/	
TITLE: Regulated nozzle for wind tunnels. Class 42, No. 169841 TITLE: Regulated nozzle for wind tunnels. Class 42, No. 169841 SOURGE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 120 TOPIC TAGS: wind tunnel, regulated nozzle, nozzle ABSTRACT: This Author Certificate introduces a regulated nozzle for wind tunnels with a rigid intake section and a flexible outlet section. wind tunnels with a rigid intake section and a flexible outlet section. In the flexible section a rigid plate has been mounted to form a rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The correction ment secures a more uniform Mach number field including the correction for the boundary layer thickness.	AUTHOR: Kuleshov, V. I.: Lyshchi	inskly, V. V.; Haksimov, S. H.;	
SOURGE: Byulleten' izobrateniy i tovarnykh znakov, no TOPIC TAGS: wind tunnel, regulated nozzle, nozzle ABSTRACT: This Author Certificate introduces a regulated nozzle for wind tunnels with a rigid intake section and a flexible outlet section. Wind tunnels with a rigid intake section and a flexible outlet section. In the flexible section a rigid plate has been mounted to form a rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone uniform Mach number field including the correction for the boundary layer thickness.	Soloakiu, te sa	d tunnels. Class 42, No. 169841	
TOPIC TAGS: Wind tunnel, regulated nozzle, nozzle ABSTRACT: This Author Certificate introduces a regulated nozzle for ABSTRACT: This Author Certificate introduces a regulated nozzle for wind tunnels with a rigid intake section and a flexible outlet section. wind tunnels with a rigid plate has been mounted to form a In the flexible section a rigid plate has been mounted to form a rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. The arrange- rectilinear zone in the flexible wall and its support. [AC]	TITLE: Regulated House	i tovarnykh znakov, no. 7, 1965, 120	
ABSTRACT: This Author Certificate introduces a regulated outlet section. wind tunnels with a rigid intake section and a flexible outlet section. wind tunnels with a rigid intake section and a flexible outlet section a flexible has been mounted to form a fine the flexible section a rigid plate has been mounted to form a flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support. The arrange-rectilinear zone in the flexible wall and its support.	SOURGE: Byulleten Lagrant regula	ted nozzle, nozzle	
wind tunnels with a rigid plate has been mounted. The arrange— In the flexible section a rigid plate has been mounted. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. The arrange— rectilinear zone in the flexible wall and its support. [AC] for the boundary layer thickness.	TOPIC TAGS: Wind tunger, to	introduces a regulated nozzle for	
in the flexible wall and its support frectilinear zone in the flexible wall and its support frectilinear zone in the flexible wall and its support frectilinear zone in the flexible wall and its support free correction [AC] ment secures a more uniform Mach number field including the correction [AC] for the boundary layer thickness.			MODEL BY
for the boundary layer thickness.	ABSTRACT: This Author Cartification wind tunnels with a rigid intake	s section and a flexible outlet section. The section and a flexible outlet section.	
	In the flexible section a rigid rectilinear zone in the flexible	plate has been moduled. The arrange- e wall and its support. The arrange- h number field including the correction [AC]	o.
card 1/2	In the flexible section a rigid rectilinear zone in the flexible	plate has been moduled. The arrange- e wall and its support. The arrange- h number field including the correction [AC]	ø
card 1/2	In the flexible section a rigid rectilinear zone in the flexible	plate has been moduled. The arrange- e wall and its support. The arrange- h number field including the correction [AC]	
[Card 1/2	In the flexible section a rigid rectilinear zone in the flexible	plate has been moduled. The arrange- e wall and its support. The arrange- h number field including the correction [AC]	
	wind tunnels with a rigid In the flexible section a rigid rectilinear zone in the flexible ment secures a more uniform Mach for the boundary layer thickness	plate has been moduled. The arrange- e wall and its support. The arrange- h number field including the correction [AC]	,
	wind tunnels with a rigid In the flexible section a rigid rectilinear zone in the flexible ment secures a more uniform Mach for the boundary layer thickness	plate has been moduled. The arrange- e wall and its support. The arrange- h number field including the correction [AC]	

L կ183 և- 65				January Comment		se ti t		1	
化分割分配 人名英格兰 医阿拉氏试验检尿炎 医抗腺核	AP5010954						urfats í	onnoy	
ACCESSION NRG	Organizate	ya gos	udarst	rennogo l ata Comm	komite ittee	for Av	ation	Tech-	
norogy, prant			• • • • • • • • • • • • • • • • • • • •	00	SUB	CODE:	ME, PR	•	
SUKHITTED:			THERE	000	ATD	PRESS	3235		
NO REP SOVE	000								
			•	·			•		
		i sa marini							
				31년 19 1 - 1일 12 13					
						•			
	병원 하다. 1905년 - 1915년		# 41 4 - 4						
		vá lugy sekt				, ,			
O. D.									
Cord 2/2					udu delle in Stationer	er Alag <u>ta alaga</u>			

LYSHEUSKIY, A.S.

AID P - 2568

Subject

: USSR/Engineering

Card 1/1

Pub. 110-a - 7/16

Author

Title

Lyshevskiy, A. S., Kand. Tech. Sci. Summarizing test results on the flame length of pulver-

ized liquid fuel

Periodical

Teploenergetika, 8, 36-39, Ag 1955

Abstract

A summarization of factors to show the relation between the flame length, the physical properties of the fluid, and the size of the equipment. The author reports that and the size of the equipment and the author reports and multiple tests conform with mathematical analysis and The author reports that theoretical data. Seven diagrams. Six Russian

references, 1935-1951.

Institution:

Novocherkassk Polytechnical Institute

Submitted

No date

CIA-RDP86-00513R001031120011-1" **APPROVED FOR RELEASE: 08/31/2001**

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001031120011-1

SOV/124-58-1-398

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 48 (USSR)

Lyshevskiy, A.S.

Determination of the Length of a Fuel-spray Jet (Opredeleniye dliny AUTHOR: TITLE:

fakela raspylennogo topliva)

PERIODICAL: Nauchn. tr. Novocherkas. politekhn. in-ta, 1955, Vol 26,

pp 391-401

A generalized equation is proposed for the length of the jet ABSTRACT:

(i.e., the depth of penetration of the jet of fuel spray into an ambient filled with compressed air.). The equation is verified on the basis of an analysis of pertinent test data available in current

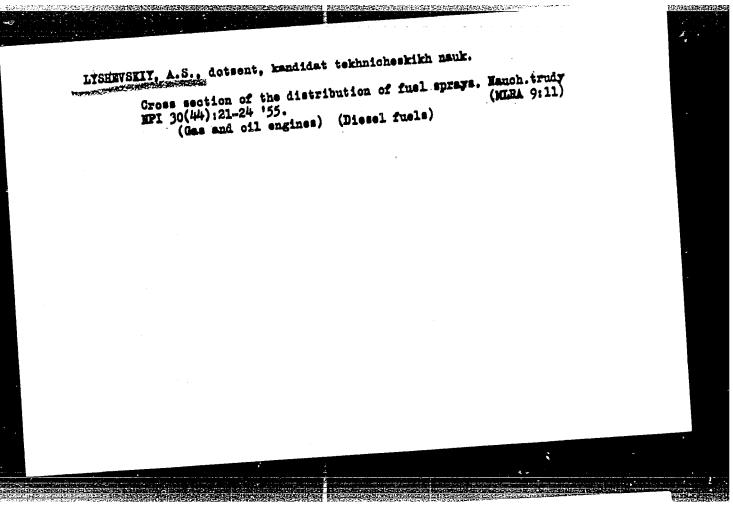
specialized literature. Graphs are adduced to confirm the validity of that form of dependence which in general is also found from

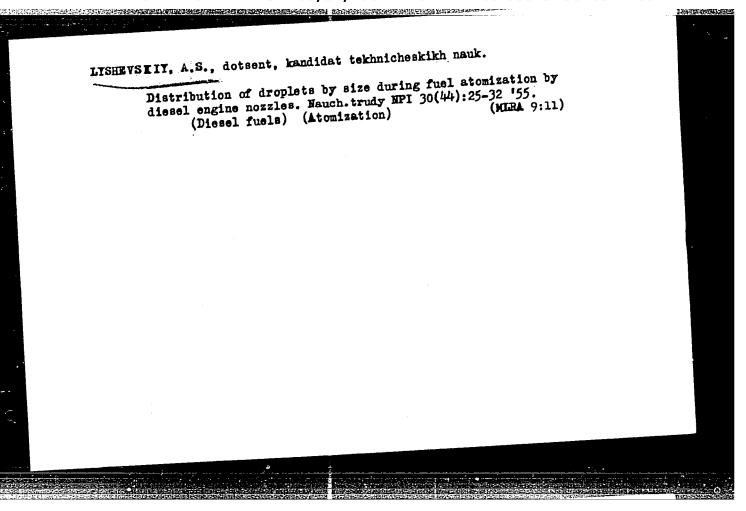
theoretical considerations. Bibliography: 5 references.

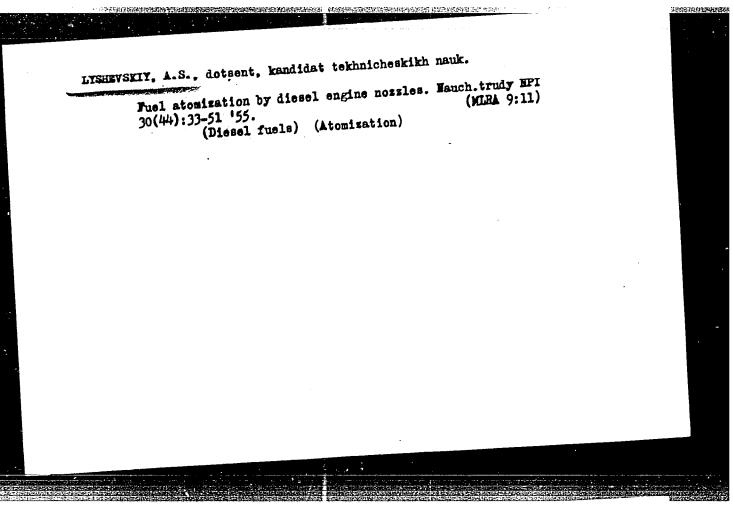
A. A. Gukhman

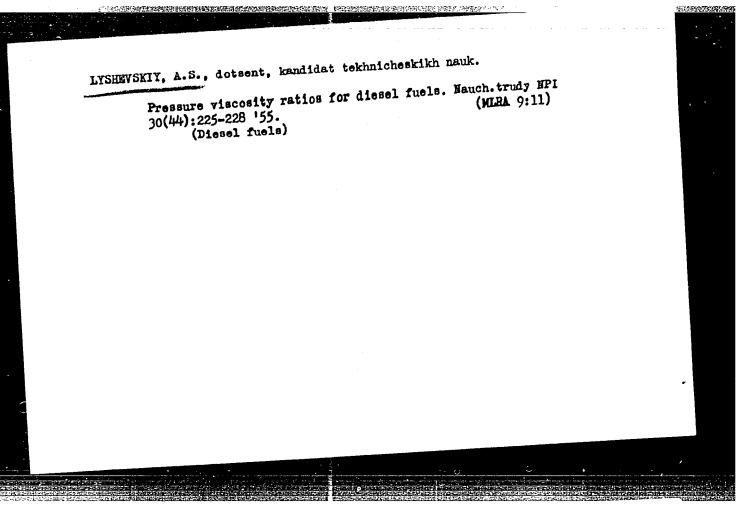
Card 1/1

CIA-RDP86-00513R001031120011-1" APPROVED FOR RELEASE: 08/31/2001









CIA-RDP86-00513R001031120011-1 "APPROVED FOR RELEASE: 08/31/2001

SOV/124-58-1-399

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 48 (USSR)

Lyshevskiy, A.S. AUTHOR:

Calculation Method for the Determination of the Length of a Fuel-TITLE:

spray Flame Jet in an Ambient of High-density Air (Raschetnyy

metod opredeleniya dliny fakela topliva v plotnom vozdukhe)

PERIODICAL: V sb.: Konstruirovaniye, issledovaniya, ispytaniya avtomobiley

Nr 2. Moscow, Mashgiz, 1956, pp 44-53

On the premise that a fuel spray constitutes a free turbulent jet the author derives a formula for the determination of the length of a

combustion-flame jet when the fuel is injected into an ambient of high-density air by means of a cylindrical nozzle. The value of the nondimensional coefficient entering the formula is determined from an analysis of test data. A calculation example relative to the deter-

mination of the length of the flame jet is adduced. The calculation

is compared with test data obtained by a number of authors. Bibliography: 5 references.

V. D. Sokolov

Card 1/1

CIA-RDP86-00513R001031120011-1" **APPROVED FOR RELEASE: 08/31/2001**

CIA-RDP86-00513R001031120011-1 "APPROVED FOR RELEASE: 08/31/2001 CANADA DE LA CARRESTA DELA CARRESTA DE LA CARRESTA DEL CARRESTA DE LA CARRESTA DEL CARRESTA DE LA CARRESTA DEL CARRESTA DE LA CARRESTA DEL CARRESTA DE LA CARRESTA DEL CARRESTA DE LA CARR

AID P - 5103

: USSR/Engineering Subject

Pub. 110-a - 6/18 Card 1/1

Lyshevskiy, A. S., Kand. Tech. Sci.

Precise atomization of liquid fuel by regular injectors Author

Title Teploenergetika, 10, 30-33, 0 1956 Periodical

The investigation of the above process is described. Abstract

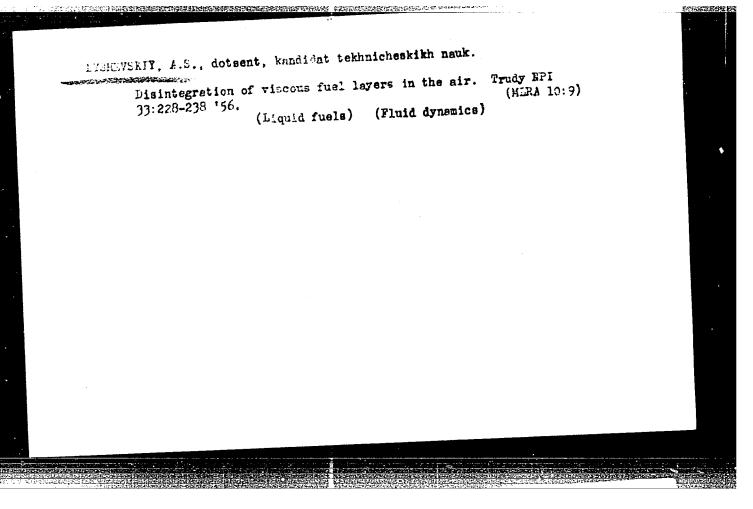
The type and design of the injector is discussed, as well as the exactitude of the atomization process. The results of tests and a method for an efficient operation

are presented. Table, 2 diagrams. 3 references.

Novocherkassk Polytechnic Institute Institution:

: No date Submitted

> CIA-RDP86-00513R001031120011-1" APPROVED FOR RELEASE: 08/31/2001



sov/124-58-2-1992

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 69 (USSR)

Lyshevskiy, A.S. AUTHOR:

On the Subject of the Coefficient of Free Turbulence of a Liquid-fuel Spray Jet (K voprosu o koeffitsiyente svobodnoy turbulentnosti strui TITLE:

raspylennogo zhidkogo topliva)

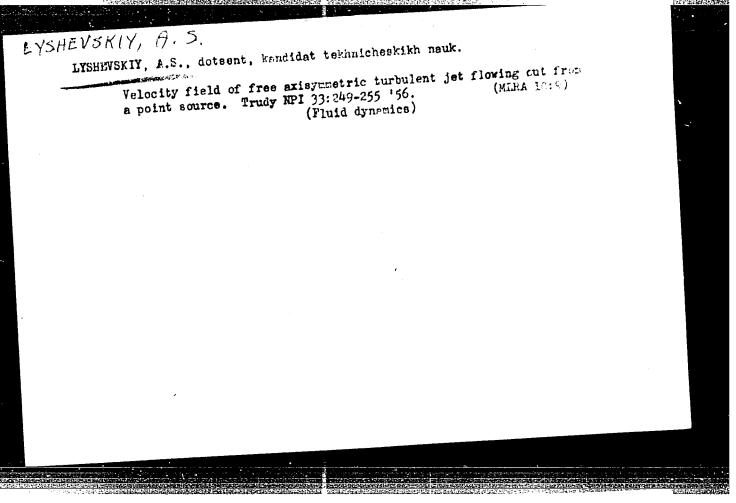
Tr. Novocherkas. politekhn. in-ta, 1956, Nr 33/47, pp 239-248 PERIODICAL:

The author offers an approximate method for the determination of the coefficient of free turbulence of a liquid-fuel spray jet, which ABSTRACT:

is required for the construction of the concentration fields of the liquid. The analysis is based on G. N. Abramovich's theory of a turbulent gas jet [Turbulentnyye svobodnyye strui zhidkostey i gazov (Turbulent Free Liquid and Gas Jets). Energoizdat, 1948] with consideration of the process of break-up of the jet. The author utilizes the method of dimensional analysis, subjects the experimental data of Miller and Beardsley to an analysis in terms of nondimensional parameters, and obtains a relationship for the coefficient of free

turbulence of a jet in terms of the density of the air and the fuel-flow

characteristics. Card 1/1



CIA-RDP86-00513R001031120011-1 "APPROVED FOR RELEASE: 08/31/2001

SOV/124-58-1-830

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 108 (USSR)

AUTHOR:

Lyshevskiy, A.S.

TITLE:

The Application of the Laws of Turbulent Diffusion to the Investigation of the Dispersion of Liquid Jets Issuing From Small Orifices

(Primeneniye zakonov turbulentnoy diffuzii k issledovaniyu

rasseivaniya zhidkikh struy, vytekayushchikh iz malykh otverstiy)

PERIODICAL: Nauchn. tr. Novocherkasskiy politekhn. in-t, 1957, Nr 39 (53) pp 49-66

ABSTRACT:

The equations of the turbulent diffusion of a liquid addition to an axisymmetric air jet are linearized by means of a partial substitution in the equations for the local values of the mean velocity by the mean values therefor relative to the cross section of the jet. The approximate equations thus obtained are analogous to the equation of heat transfer and their integration is performed by the usual methods. The theoretical results are compared with extant experimental materials relative to the spray atomization of fuel. At sections located far from the nozzle outlet, where the concentration of the liquid suspension is sufficiently small, the agreement between

Card 1/2

SOV/124-58-1-830

The Application of the Laws of Turbulent Diffusion to the Investigation (cont.)

theory and experiment is found to be fully satisfactory.

L.G. Loytsyanskiy

Card 2/2

SOV/124-58-4-4075

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 4, p56 (USSR)

Lyshevskiy, A.S. AUTHOR:

Determination of Limit Velocities in the Breakdown of a Liquid TITLE:

Jet (K opredeleniyu predel'nykh skorostey pri raspade strui

zhidkosti)

PERIODICAL: Nauchn. tr. Novocherkasskiy politekhn. in-t, 1957,

Vol 39 (53), pp 67-70

The author gives an empirical formula for the determination ABSTRACT:

of the limits of various forms of breakdown of a jet of water: 1) breakdown of a jet without the interference of aerodynamic forces, 2) breakdown of a jet with interference of aerodynamic forces, 3) breakdown of a jet with formation of a wave profile. The limits between the various forms of breakdown of a jet are determined by studying the results of experiments made by O. Gol'felder [Protsess raspada strui v zavisimosti ot formy sopla i protivodavleniya (The Process of the Breakdown of a Jet As a Function of the Shape of the Nozzle and the Back Pressure,) Vol 1, S. N. Vasil'yeva, Ed., ONTI, NKTF SSSR,

1936] with application of the theory of dimensional similarity. Card 1/2

CIA-RDP86-00513R001031120011-1" **APPROVED FOR RELEASE: 08/31/2001**

SOV/124-58-4-4075

Determination of Limit Velocities in the Breakdown of a Liquid Jet

The equation for these limits is:

 $W = A \pi^{m}$ (5a)

where π is the ratio of the density of the liquid, ρ_{ℓ} , to the density of the air $\rho_a,$ and

 $W = U_n^2 \rho_{\ell} d_c \alpha^{-1}$

where U_n is the velocity of the jet, d_n is the diameter of the nozzle, and d_n is the surface tension of the liquid. The numerical values of A and m are found for each limit. There are certain discrepancies in the author's reasonings. He disregards the influence of the liquid's viscosity on the grounds that the viscosity coefficient in the experiment remained constant; yet the same can be said relative to the surface tension. The author asserts that the equation (5A) is obtained on the basis of the theory of similarity, whereas that theory points only to the fact that W is a function of π and the presentation of the dependence of W upon π as a power function is merely an admissible hypothesis. 1. Liquid jets--Velocity 2. Liquid jets--Aerodynamic Card 2/2 characteristics M. i. Gurevich

CIA-RDP86-00513R001031120011-1 "APPROVED FOR RELEASE: 08/31/2001

SOV/124-58-11-12577

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 93 (USSR)

Lyshevskiy, A.S. AUTHOR:

Some Laws Governing the Expansion of a Liquid-spray Jet in a Medium TITLE:

With a Counterpressure (Nekotoryye zakonomernosti rasshiren ya

strui raspylennoy zhidkosti v srede s protivodavleniyem)

PERIODICAL: Nauchn. tr. Novocherkasskiy politekhn. in-t, 1957, Vol 39 (53),

pp 71-79

The author adduces semiempirical relationships of the taper angle of a liquid~spray jet issuing from a nozzle as a function of the geom-ABSTRACT:

etric shape of the outlet opening (cylindrical, convergent-cone, divergent-cone, et al.) and of the Reynolds number. The relationship is based on the theory of a free jet, on the one hand, and on

Hohlfelder's experiments (DVS. Sb. monogr. po in. lit., ONTI

NKTP SSSR, 1936), on the other hand.

I. A. Shepelev

Card 1/1

SOV/124-58-2-1840

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 48 (USSR)

AUTHOR: Lyshevskiy, A.S.

NAME OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE

TITLE: On the Influence of Turbulence on the Breakdown of a Liquid Jet (O vliyanii turbulentnosti na raspad zhidkoy strui)

PERIODICAL: Nauchn. tr. Novocherkasskiy politekhn. in-t, 1957, Vol 39(53), pp 81-86

ABSTRACT:

An analysis of the reasonings of various authors who have investigated the character of the liquid flow in the outlet openings of liquid-spray fuel-injection nozzles. From an analysis of the nondimensional parameters of experimental data on the length of the unbroken liquid jet, obtained by a number of investigators, the following formula is obtained:

d: $\frac{l}{d_c} = c W^{-m} R^{-n}$, $W = \frac{u_c^2 \rho_t d_c}{a}$, $R = u_c d_c / v_t$

where l is the length of the unbroken portion of the liquid jet, d_c is the diameter of the nozzle-outlet opening, u_c is the outflow velocity of the fuel, ρ_t and v_t are the density and the kinematic viscosity

Card 1/2